

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111(a)
Serial Number: 10/724,432
Filing Date: November 28, 2003
Title: HIGH EFFICIENCY SELF-CLEANING CENTRIFUGE

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Attorney Docket: 5039.001US1

IN THE ABSTRACT

The abstract is amended as follows:

A self-cleaning centrifuge for clarifying contaminated liquids has a rotor assembly comprising nested first and second sets of concentric cylinders supported for rotation about an axis. The sets of concentric cylinders are rotatably connected. A motor ~~[[means]]~~ is connected to rotate one of the sets. ~~Means supply contaminated liquid~~ Contaminated liquid is supplied to the nested cylinders, and the liquid provides coupling between both of the sets so that both sets rotate about the axis. Centrifugal force causes foreign matter to collect on the circumferential surfaces of the cylinders. The resultant clarified liquid is collected for reuse. A Selectively selectively utilized brake ~~[[means]]~~ provides sudden braking of one of the rotating sets to purge collected foreign matter from the cylinders. The purged foreign matter is collected for disposal.

The following clean version of the amended abstract is provided for the Examiner's convenience:

A self-cleaning centrifuge for clarifying contaminated liquids has a rotor assembly comprising nested first and second sets of concentric cylinders supported for rotation about an axis. The sets of concentric cylinders are rotatably connected. A motor is connected to rotate one of the sets. Contaminated liquid is supplied to the nested cylinders, and the liquid provides coupling between both of the sets so that both sets rotate about the axis. Centrifugal force causes foreign matter to collect on the circumferential surfaces of the cylinders. The resultant clarified liquid is collected for reuse. A selectively utilized brake provides sudden braking of one of the rotating sets to purge collected foreign matter from the cylinders. The purged foreign matter is collected for disposal.